

BENASHVILI, I. A. (Editor)

AGENOROVA, V. K. and BENASHVILI, I. A. (Editor), "Problems of Maritime Hydrological Forecasts (Symposium of Articles)," Works of Sci-Res Institution of the Main Administration of the Hydrometeorological Service USSR, Series V, No 12. Hydrometeorological Press, Leningrad-Moscow: 1946. 212 pp with illustrations and 1 chart. (State Institute of Oceanography.) (Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

BENASHVILI, I. A.

4C-180 551.509.532
 Benashvili, I. A., K voprosu o metodike predskazaniia zamorozkov. [Frost forecasting methodology.] *Sovetskie Subtropiki*, Moscow, 2(10):76-78, Oct. 1935, table. DLC—A report on the results of the verification of KAMMERMANN'S method of frost forecasting in Azerbaidzhan. This method, if used with KOBOSTLEV'S collection, can give an 85% accurate forecast. Special reduction values developed for 7 basic points of the area are presented. *Subject Headings:* 1. Frost forecasting 2. Forecast verification 3. Kammermann's formula 4. Azerbaidzhan, U.S.S.R.

Meteorological Abst.

Vol. 4 No. 3

Mar. 1954

Part 2

Bibliography on Frost and Frost Forecasting

USSR /Chemical Technology. Chemical Products
and Their Application
Water treatment. Sewage water.

H-5

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1693

12 m/hour. For this reason the author proposes
to abandon the use of AKKh filters, and to re-
place them by ordinary filters in which filtration
is to be effected by upward flow.

Card 2/2

BENASHVILI, A.M.

USSR /Chemical Technology. Chemical Products
and Their Application
Water treatment. Sewage water.

H-5

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1693

Author : Benashvili A.M.

Inst : Georgian Polytechnic Institute

Title : Concerning Upward-Flow Filtration and Filtering
Systems of Large Sludge-Holding Capacity

Orig Pub: Tr. Gruz. politekhn. in-t, 1956, No 6, (47)
67-76

Abstract: It is shown by means of calculations that a sus-
pension of sand particles 0.5-0.6 mm in diameter
occurs when water is filtered by upward flow
through a bed of such sand at a velocity exceeding

Card 1/2

BENASA, Jaroslav, inž., dr. C.Sc.; BRUCKNER, Frantisek, inz.

Experience made by the Czechoslovak phytopathologists during their visit in Swedish research institutes and agricultural experiment stations. Vestnik CSAZV 9 no.2:84-89 '62.

1. Vyzkumny ustav obilnarsky, Ceskoslovenska akademie ved, Kromeriz.

BENAS, A.

On the effect of serum proteins on the blood sedimentation rate.
Acta med. iugosl. 14 no.3:278-283 '60.

1. Pathophysiologisches Institut der Medizinischen Fakultät in Zagreb.
(BLOOD SEDIMENTATION)
(BLOOD PROTEINS)

KOSCEVIC, Milojka; BENAS, Antun

Thyrototoxicosis associated with a malignant process (analysis of a case). Rad. med. fak. Zagreb 8 no.1:63-66 '60.
(HYPERTHYROIDISM etiol) (KIDNEY neopl)
(ADENOCARCINOMA compl)

BENAS, Anton, Dr.

Studies on the problem of aneurysm of the abdominal aorta. Med. glasn.
13 no.2:49-51 Feb 59.

1. Zavod za patolosku fiziologiju Medicinskog fakulteta u Zagrebu
v.d. Predstojnika: prof. dr P. Sokolovic).
(AORTIC ANEURYSM,
abdom. (Ser))

BENAS, A.

Accelerated diffusion of electrolytes in double diffusion system.
Acta med. iugosl. 15 no.4:434-437 '61.

1. Institute of Patho-Physiology. Medical Faculty, University of
Zagreb.

(ELECTROLYTES)

POLAND / Organic Chemistry. Synthetic Organic
Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77601.

Abstract: smegmae, staphylococcus aureus, E. coli, and hay
bacillus (complete inhibition of growth at doses
of 100-200 μ /ml). Compounds I-VI produce a com-
plete inhibition of the growth of tuberculosis
bacillus at 10 μ /ml. -- V. Rudenko.

Card 3/3

POLAND / Organic Chemistry. Synthetic Organic
Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77601.

Abstract: alcohol; acetone); $C_6H_4OC_2H_5$ -p, 85, 167-168
(benzene); $C_6H_4N(CH_3)_2$ -p, 80.2, 209-210 (acetone);
 C_6H_4Cl -p (I), 83, 178-180 (CH_3OH , alcohol,
acetone); C_6H_4Br -p (II), 79.9, 189-190 (CH_3OH ,
alcohol, acetone); C_6H_4I -p, (III), 84.6, 209-
210 (CH_3OH , alcohol; 2-pyridyl (IV), 72.3, 226-
227 (CH_3OH , alcohol); 2-thiazolyl (V), 73.5,
273-274 (decomposes at 285°); alcohol, benzene);
amidoisonicotinyl (VI), 69.4 does not melt below
 300° (acetone). All of the above substances show
a small activity against Micobacterium BCG, phlei,

Card 2/3

POLAND / Organic Chemistry. Synthetic Organic
Chemistry.

G-2

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 77601.

Author : Benarz, K.

Inst : Polish Academy of Sciences.

Title : The Synthesis and the Biological Properties of
Some New Aromatic Derivatives of Thiourea.

Orig Pub: Dissert Pharmac PAN, 10, No 1, 1-6 (1958) (in
Polish with summaries in English and Russian).

Abstract: When 0.002 mol of an aromatic amine is heated with
0.002 mol of p-nitrobenzoylthiocyanate (100°,
5 min), the following aromatic derivatives of p-ni-
trobenzoylthiourea (p-O₂NC₆H₄CONHCSNHR) are ob-
tained (R, the yield in %, mp in °C (solvent) are
given in that order): C₆H₄CH₃-p, 82, 162-163
(alcohol); C₆H₄OCH₃-p, 78.5, 155-156 (CH₃OH,

Card 1/3

BENARI, S.; MAN, Marinela; POPA, Gh.V.; STANA, V.

Liquid fertilizers with nitrogen. Rev chimie Min petr 16
no.1:10-15 Ja '65.

BENARI, S.; VELNICERIU, A.

Fertilizer mixtures and phytopharmaceutical substances. Rev chimie
Min petr 14 no.5:260-265 My '63.

BENARI, S.; PREDĂ, V.; MAN, M.; POPESCU, A.

Fertilizers mixed with microelements. Rev chimie Min petr 13 no.9:
545-550 S '62.

BENARI, S.

Chemicalization of agriculture in the light of the program of
the Communist Party of the Soviet Union. Rev chimie Min petr
13 no.1:20-21 Ja '62.

1. BEKETOVSKIY, D. N.; ~~BERNARDOS~~. N. N.
2. USSR (600)
4. Ogolevets, G. S.
7. "Encyclopedic dictionary of medicinal, essential-oil and poisonous plants."
Reviewed by D. N. Beketovskiy, A. N. Obukhov. Bot. zhur. 37 no. 5: 1952

9. Monthly List of Russian Accessions, Library of Congress, _____ 1953. Unclassified.

L 30764-66 RO

ACC NR: AP6020251

SOURCE CODE: RU/0003/65/016/11-/0561/0565

AUTHOR: Benari, S.; Cristescu, Laurentia

ORG: none

TITLE: Mixtures of fertilizers and phytopharmaceutical substances. Superphosphate-aldrin mixture

SOURCE: Revista de chimie, v. 16, no. 11-12, 1965, 561-565

TOPIC TAGS: fertilizer, agriculture science

ABSTRACT: The authors describe and analyze the three practical methods of preparing a mixture of superphosphate with Aldrin that will be safe for agricultural use, namely the mixture of powdered fertilizer with powdered Aldrin; the mixture of granulated fertilizer with granulated Aldrin; and the impregnation of superphosphate granules with an Aldrin solution. Orig. art. has: 3 figures and 3 tables. [JPRS]

SUB CODE: 02 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 004

SOV REF: 001

Card 1/1 JS

L 31866-66 RO

ACC NR: AP6021274

SOURCE CODE: RU/0003/65/016/001/0010/0015

AUTHOR: Benari, S.; Man, Marinela; Popa, Gh. V.; Stana, V.

ORG: none

TITLE: Liquid nitrogenous fertilizers⁶ - the carboammoniacates. II. Semi-industrial experiments

SOURCE: Revista de chimie, v. 16, no. 1, 1965, 10-15

TOPIC TAGS: fertilizer, ammonium compound, urea, ammonia, carbon dioxide

ABSTRACT: In this second article of a series, the authors give some data on the preparation of carboammoniacate liquid fertilizers in a semi-industrial plant with a production capacity of 3 tons daily. The plant utilizes the process of simultaneous absorption of ammonia and carbon dioxide accompanied by chemical reactions in the eutectic ammonium nitrate-urea mixture. The absorption apparatus used ensures absorption efficiency of over 96 percent, and the characteristics of the product are superior to those of liquid fertilizers of the aqueous ammonia or ammoniacate type. Orig. art. has: 1 figure, 6 formulas and 9 tables. [Based on authors' Eng. abstract] [JPRS]

SUB CODE: 02, 07 / SUBM DATE: none / ORIG REF: 008 / SOV REF: 018

Card 1/1 JS

UDC: 631.841.001.6:66.071.7.002.5

COUNTRY : Czechoslovakia
CATEGORY :
ABS. JOUR. : RZKhim., No. 21 1959, No. 74565
AUTHOR :
TITLE :
ORIG. PUB. :
ABSTRACT : n.10, Fe from $\leq n \cdot 10^{-3}$ to n.10, Mg up to $n \cdot 10^{-1}$, Mn up to $n \cdot 10^{-2}$, V1 up to $\leq n \cdot 10^{-3}$, Sb n.10, Bi up to $n \cdot 10^{-1}$, and Sn, Sr, Ti, V up to $\leq n \cdot 10^{-3}$. The lattice parameters of tetrahedrite vary between the limits 10.30 and 10.49A, increasing with the Hg concentration and decreasing with As concentration.
R. Khmel'nitskiy

CARD: 5/5

COUNTRY : Czechoslovakia
 CATEGORY : D

ABS. JOUR. : RZKhm., No. 21, 1959, No. 74563

AUTHOR :
 INST. :
 TITLE :

ORIG. PUB. :

ABSTRACT : and 2.25, Sn 18.65 and 19.03, S 23.27 and 22.41. Chemical analysis and spectroscopic determinations on 30 samples gave Hg 1.16-10.60%. Semiquantitative and qualitative spectroscopic analysis of 50 samples gave the following concentration ranges (in %): Ag $(1-5) \cdot 10^{-1}$, As $5 \cdot 10^{-1} - 10$, Au up to $5 \cdot 10^{-3}$, Bi $5 \cdot 10^{-1} - 10$, Cd up to 10^{-2} , Ge up to 10^{-2} , Hg from 1 to > 10 , Pb up to 10^{-1} , Zn $10^{-1} - 10$, Al up to $n \cdot 10^{-2}$ [sic], Ba up to $n \cdot 10^{-1}$, Ca from $\leq n \cdot 10^{-3}$ to $n \cdot 10^{-1}$, Co up to $\leq n \cdot 10^{-3}$, Cu

CARD: 2/3

COUNTRY : Czechoslovakia
 CATEGORY : D
 ABS. JOUR. : RZKhim., No. 21 1959, No. 74563
 AUTHOR : Benard, J. H.
 INST. : Not given
 TITLE : Chemism and Chromometers of the Crystal Lattice of Spiasko-Gemersko Tetrahedrite
 ORIG. PUB. : Rozpr CSAV, MNV 68, No 14, 1958; 74 pages, illustrated
 ABSTRACT : Using data from chemical, qualitative and semi-quantitative spectroscopic, and x-ray analysis, the author has studied tetrahedrite found in veins filled with quartz, barite, calcite, siderite, cinnabar, arsenopyrite, antimonite, galenite, chalcopyrite, pyrite, pyrrhotine, and tourmaline. Chemical analysis of 12 samples gave the following concentration limits (in %): Hg 1.14-16.56, As 3.14-6.21; (6 samples) Sn 0.61-1.92, Bi 1.17-3.50; (2 samples) Cu 55.35 and 61.88, Fe 0.88

CARD: 1/3

BENARD, Gáza, agrarmernok (Tiszakezsi)

First step toward expedient, organized, intensive farming. Borsod
szemle 7 no.4:10-16 '63.

BEMMAD, A.

"Sphere of Authority of the Enterprise Manager", I. 1. (TOBENTEN ELES,
Vol. 8, No. 6, June 1954, Budapest, Hungary)

SO: Monthly List of East European Accessions, (SEAL), IC, Vol. 4,
No. 1, Jan. 1955, Uncl.

BENARY, S.

Benary, S.
"Radio patrol." p. 5.
(Laszlo Radio. Vol. 9, no. 21, May 1953, Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.

BENAMY, S.

"Well...I don't say." p. 4. May 1. p. 5. (MAGYAR RÁDIO, Vol. 9, no. 17, Apr. 1953. Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

BENANY, S.

"Three programs about which we usually do not write." p. 10. (MAGYAR RADIO,
Vol. 9. no. 16, Apr. 1953. Budapest.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
August, 1953, Uncl.

BENA-MEDEAN, V

Distr: 4E3d

Naphthalic anhydride isoimide derivatives. IV. A.
 Ostrogovich and V. Bena-Medean. *Bul. univ. "V. I. Lenin" Cluj, Ser. chim. mat.* 1, 129-38 (1967).
~~*Buletinul "Bolsai" Cluj, Ser. chim. mat.* 1, 129-38 (1967).~~
 N-Benzylidene amino deriv. of naphthalic anhydride isoimide heated in hot HOAc yielded 0.42 g. orange crystals, $C_{21}H_{17}O_4N$, m. 360-400° (decompn.). Structures were proposed for this compd. The compd. was insol. in NaOH but sol. in $PhNO_2$ and in concd. H_2SO_4 . Secondary products, $C_{21}H_{17}O_4N$, m. 240-50° (decompn.), and $C_{21}H_{17}O_4N$, decompd. 190°, were also isolated. N-(m-Chlorobenzylideneamino) deriv. of naphthalic acid imide, prepd. from m-ClC₆H₄CHO and naphthalic acid imide, m. 210°, isomerized by heating in alc. NaOH to N-(m-chlorobenzylideneamino) deriv. of naphthalic acid isoimide, m. 160-5°.

T. Lepall

5
 / BW(BH)
 / JAJ(NB)
 /

BENAK, I.

BENAK, I. Our Association and the educational institutions. p. 97.

Vol. 8, no. 3, Mar. 1956

AGRARTUDOMANY.

AGRICULTURE

Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

L 31591-66 RO

ACC NR: AP6022959

SOURCE CODE: CZ/0008/65/000/009/1066/1068

AUTHOR: Polydorova, Marie; Spurny, Kvetoslav; Paspas, Dalibor; Benak, Frantisek 23

ORG: Institute of Physical Chemistry, CSAV, Prague (Ustav fyzikalni chemie CSAV);
[Paspas, Benak] Developmental Workshop CSAV (Vyojovedilny CSAV) B

TITLE: Use of a membrane filter ribbon for continuous collecting of aerosol samples 6

SOURCE: Chemicke listy, no. 9, 1965, 1066-1068

TOPIC TAGS: aerosol, aerosol chemistry, gas filter

ABSTRACT: Improved apparatus for continuous sampling of aerosols is described. The previous manner of sampling was in a stepwise way. The samples are collected on belts made of paper or plastic and evaluated on the basis of light scattering caused by the solids collected on the filter. The authors designed a special membrane filter which is produced by the Czech firm Synthesia; this filter may be used for continuous measurements lasting 24 hours. The apparatus is similar to the AIST sampler made by the Research Appliance Co. of Allison Park, Pa. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 07 / SUBM DATE: 25Jul64 / ORIG REF: 001 / OTH REF: 007

Card 1/1 BLG

0915

1043

L 38574-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6027697

SOURCE CODE: CZ/0057/66/000/004/0183/0186

AUTHOR: Engst, Augustin; Benak, Alois

ORG: SONP, Kladno

28
B

TITLE: Induction hardening of tractor crankshafts

SOURCE: Hutnik, no. 4, 1966, 183-186

TOPIC TAGS: engine crankshaft, tractor, induction hardening, metallurgic machinery, steel/CSN15230 steel

ABSTRACT: Methods used in surface hardening are reviewed. A new process for the hardening was developed by the Research Institute of the ZEZ firm at Prague. An installation using this process was erected at the SONP works at Kladno; it consists of a source of medium frequency electrical current, the hardening apparatus, equipment for water and air supply, and the necessary control instruments. The current frequency used is 10,000 cycles. The hardening apparatus is of domestic design, made by the ZEZ works. It can be used for surface hardening of series of crankshafts up to 1000 mm long and weighing up to 45 kg. The steel used for the crankshafts is CSN steel 15230. The surface is nitrided. Poldi steels CVX, W6H, W5W, and W5H give good crankshafts. Orig. art. has: 6 figures. [JPRS: 36,646]

SUB CODE: 13, 11 / SUBM DATE: none / ORIG REF: 002 / SOV REF: 001
Card 1/1 FV

1-21840-65
ACCESSION NO: AP500116
ASSOCIATION: none
SUBMITTED: 01/01/63
NO REF SQ: 003

ENVL: 00
OTHER: 025

SUB CODE: WA
JPRS

Card 2/2

4-21870-AS RT(3) TP(3)
ACCESSION NR: APS0013

2/0005/04/000/005/0105/0207

AUTHOR: Banaśki, M. (Buzarest)

TITLE: Theory of multilattices VI (Contributions to the theory of ordered Algebraic structures)

SOURCE: Matematika (Bucharest), no. 3, 1968, 167-207

TOPIC TAGS: algebra

Abstract: This paper deals with partially ordered groupoids in order to generalize theorems on divisibility and ideals in rings. It is not assumed that multiplication is associative; moreover, the partial ordering does not necessarily define a lattice. This point of view is used to investigate the following examples: the Hurchu-Cre theorem on decomposition, the Laska-Neuber theorem on decomposition of elements into products of prime elements, and the theorem on existence of principal series between two elements. Toward this end, the author introduces and studies the notions of prime elements, radicals, right and left properties, etc. Orig. art. has 22 formulas.

Cont. 1/2

BENADO, Mihail (Bucharest)

Data on a property of interpolation in the theory of partially ordered aggregates. Acta math Szeged 22 no.1/2:1-5 '61.

1. Submitted July 4, 1960.

ILLEGIBLE

BENADO, M.

A problem of O. Ore's theory of normality relations. p. 1241. Academia Republicii Populare Romine. COMUNICARILE. Bucuresti. Vol. 5, no. 6, June 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, no. 9, Sept. 1955

ILLEGIBLE

ILLEGIBLE

ILLEGIBLE

BENADO, Mikhail (Bukharest)

Partially ordered sets and Schreier's refinement theorem. Part 1.
[in French with summary in Russian] Chekh.mat.zhur.4 no.2:105-129 My '54.
(Aggregates) (MLRA 7:6)

BENADO, Mihail

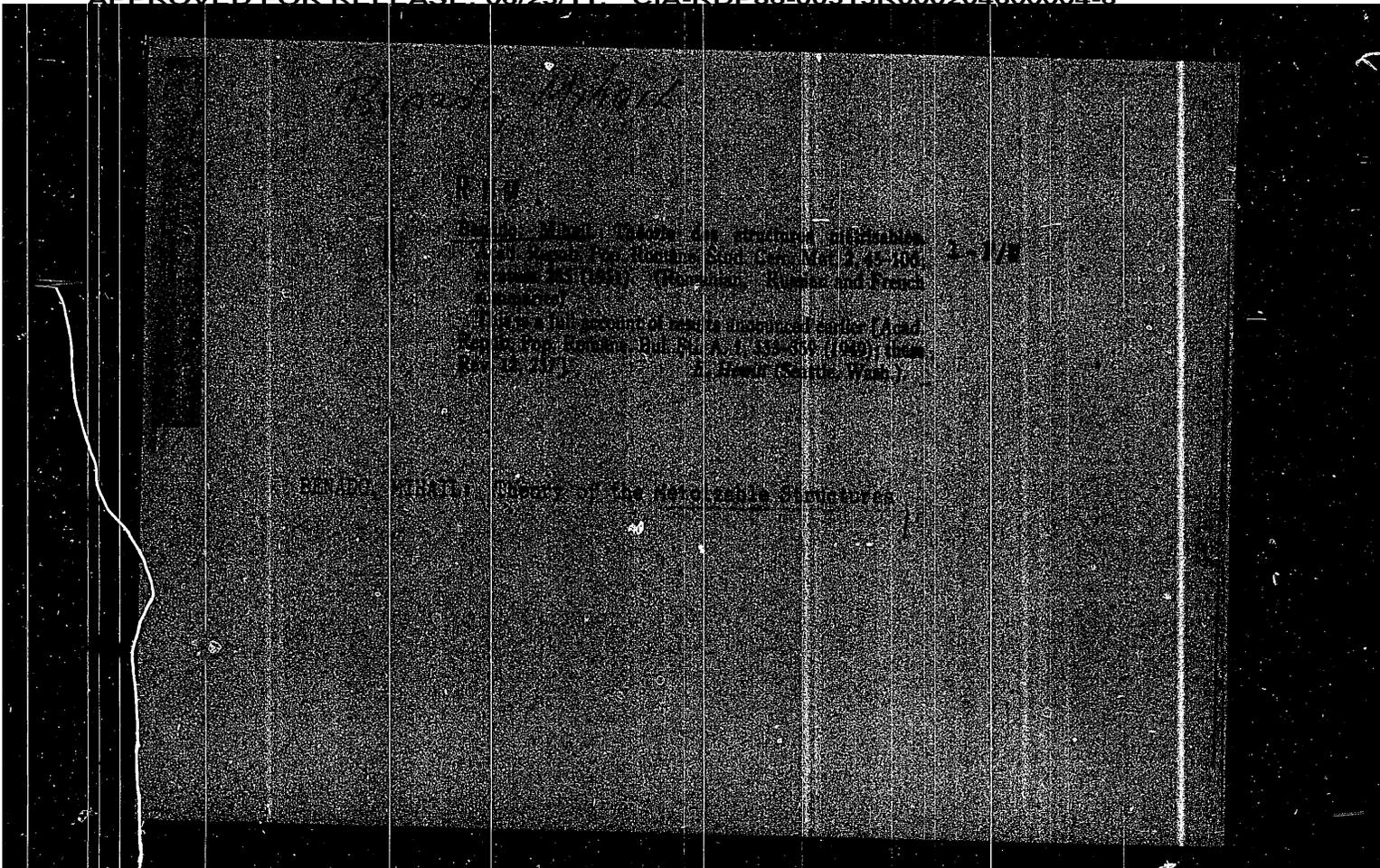
Benado, Mihail Les ensembles partiellement ordonnés et le théorème de raffinement de O. Schreier. Acad. Repub. Pop. Române. Bul. Şti. Sect. Şti. Mat. Fiz. 4, 585-591 (1952). (Romanian. Russian and French summaries)

Let S be any partially ordered set satisfying the following condition for fixed $a \in S$ and all $b, c, d \in S$: if $a \leq b \leq d$ and $a \leq c \leq d$, then there exist $a', d' \in S$ with $a \leq a' \leq b \leq d' \leq d$ and $a' \leq c \leq d'$ such that the order-isomorphisms $d'/b \cong c/a'$ and $d'/c \cong b/a'$ hold. Theorem: In S , any two chains with common extremities $a \leq d$ have isomorphic refinements. The essential part of the proof is stated to follow exactly that of Schreier [Abh. Math. Sem. Hamburg. Univ. 6, 300-302 (1928)]. It is observed that various known results are special cases of this theorem.

P. M. Whitman.

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10-28-54 LL



Benado, M

Benado, M. La normalité d'Uzkov et le théorème
de Jordan-Hölder. Com. Acad. R. P. Române 1, 7-11
(1951). (Romanian, Russian and French summaries)
A modified form of Uzkov's conditions (Mat. Sb. N.S.
4(46), 31-43 (1938)) is shown, in outline, equivalent to the
Schreier-Zassenhaus theorem for algebras. The inter-
relations of several forms of normality are considered
briefly. [Cf. the author's other papers, such as Acad.
Repub. Pop. Române, Stud. Cerc. Mat. 1, 282-317 (1951);
4, 69-120 (1953); MR 16, 212.] P. M. Whitman.

1 - P/W

RAW RW

ILLEGIBLE

ILLEGIBLE

ILLEGIBLE

BENADA, Jaroslav, inz. dr.

Yellow rust (*Puccinia striiformis* Westend.) epidemy on wheat
in Moravia in 1961. Rost vyroba 9 no.6:593-604 Je '63.

1. Vyzkumny ustav obilnarsky, Kromeriz.

BENADA, Jaroslav, inz. dr.; BRUCKNER, Frantisek, inz.

Powdery mildew (*Erysiphe graminis* DC.) on barley. Pt.4.
Rost vyroba 9 no.6:585-592 Je '63.

1. Vyzkumny ustav obilnarsky, Kromeriz.

BENADA, J., Inz.Dr.: BRUCKNER, F., Inz.; MRAZ, F., Inz.

Experience made by the Czechoslovak phytopathologists during their visit to the Austrian research institutes. Vestnik CSAZV 8 no.5: 277-283 '61., (EEAI 10:6)

1. Vyzkumny ustav obilnarsky Ceskoslovenske akademie zemedelskych ved, Kromeriz.
(Austria--Plants) (Czechoslovakia--Plants)

BENADA, J.

"Snow Mold in Rye." p. 100. (ZA SOCIALISTICKE ZEMEDLSTVI, Vol. 4, no. 1, Jan. 1954, Praha, Czechoslovakia)

So: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954/Unclassified

BENADA, J.

"A contribution to the study of infection of some corn varieties with
helminthosporium turcicum Fass.", p. 288, (SBORNÍK, Vol. 24, #3/4,
Oct. 1951, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of
Congress, August 1953, Uncl.

BENACKA, S.

A simple device for manufacturing balls from semiconducting materials. EI tech cas 15 no.10:638 '64.

BENA, V.

Keeping up with the technological progress in the Slovak food industry, p. 947.

Technicka Praca. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied) Bratislava, Czechoslovakia, Vol. 11, no. 11, Nov. 1959.

Monthly List of East European Accessions (EEAI), LC Vol. 9, no. 2,
Feb. 1960

Uncl.

BENA, V.

The relation between agricultural education and the manufacture of agricultural machinery.

P. 253. (Zemedelske Stroje.) (Praha, Czechoslovakia) Vol. 2, No. 11, Nov. 1957

SO: Monthly Index of East European Accession (EIAI) LC. Vol 7 No. 5, May 1958

BENA, J. dr.

Electroacoustic amplifier with important electric gain. Slaboproudy
obzor 26 no.1:52 Ja '65.

Measurement determining to what extent the radiation of short
waves around the world follows the main circle. Ibid.:55-56

BENA, Josef, dr.

Problems of mobile radiotelephone networks. Cs spoje 9 no.5:
1-4 0 '64.

1. Spojprojekt, Prague.

ILLEGIBLE

DEHA, J, Jr.

Experiments with parallel gas lasers in a cavity. *Siborskiy
obzor* 25 no. 5:307 My 1964.

Natural deviations of electromagnetic field in the range of 3
to 0,02 Hz. *Ibid.*:309

BENA, J., dr.

Some electric characteristics of the earth's crust.
Slaboproudy obzor 25 no.4:238-240 Ap '64.

BENA, J., dr.

Direct modulation of the helium-neon gas laser.
Slaboproudny obzor 25 no. 2: 103 F '64.

BENA, J.; ILAVSKY, J.; KOSSACZKY, E.; VALTYNI, J.

Fluidizing-point velocities of nonspherical particles. Coll Cz
Chem 28 no.3:555-569 Mr '63.

1. Chemical Faculty, Technical Institute, Bratislava.

BENA, J.; ILAVSKY, J.; KOSSACZSKY, E.; NEUZIL, L.

Changes of the flow character in a fluidized bed. Coll. Cz
Chem 28 no.2:293-309 F '63.

1. Slovak Technical University, Bratislava and Institute of
Chemical Technology, Prague.

BENA, J., dr.

Measurement of microwave disturbances on the 4 GHz frequencies
caused by dispersion in rain. Slaboproudy obzor 24 no.8:494
Ag '63.

BENA, J., dr.; SOUDEK; MALEC, Zd.; STAREK; MICHALICA, Karel, inz.;
HUSA, V., inz. dr., ScC.; KRIZ, J.

Reports. Slaboproudý obzor 24 no.7:423-428 JI '63.

HENA, J., dr.

Coherent light phase modulator with GHz band width. Slaboproudy
obzor 24 no.6:368 Ja '63.

BENA, J., dr.

Orbiting geophysical observatories. Slaboproudy obzor 24
no.5:308-309 My '63.

EENA, J., DR.

Frequency-sounding technique for short-wave communications
over polar radiation areas. Slaboproudny obzor 24 no.5:305.
306 My '63.

BENA, Josef, dr.

Penetration of the very low-frequency radiosignals into the ionosphere;
provisional data acquired by the satellite LOFTI. Slaboproudý obzor
24 no. 3:175 Mr '63.

BENA, J., dr.

Ionic and plasma drives for space ships. Slaboproudy obzor 24
no.2:107-108 F '63.

BENA, J., dr.

Light beam modulation by high frequency. Slaboproudy obzor
24 no.1:49-50 Ja '63.

ESNA, J., dr.

Supressing humidity in the sealings of long-life transistors.
Slaboproudy obzor 24 no.1:48 Ja '63.

BENA, J., dr.

Single-band modulation of coherent light beams with a suppressed carrier. Slaboproudy obzor 24 no.1:44 Ja '63.

BENA, Jan, doc., inz., CSc.; GREGOR, Mikulas; BIZMAR, Jozef, inz.

Examination of the formation of sulfate sulfur in roasting Chinese molybdenite concentrate. Chem zvesti 17 no.10/11: 765-775 '63.

1. Katedra anorganickej technologie, Slovenska vysoká škola technická, Bratislava, Kollarovo namesti 2. 2. Člen Korespondent Slovenskej akademie vied (for Gregor).

3
BENA, J.; ILAVSKY, J.; KOSZACZSKY, E.; NEUZIL, L.

CSSR

Slovak Technical University, Bratislava, and Institute of Chemical
Technology, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 2, 1963,
pp 293-309

"Changes in the Flow Character in a Fluidized Bed"

6

BENA, J., dr.

Reducing frequency changes caused by temperature in piezo-electric resonators by means of mechanical stress. Slaboproudy obzor 23 no.7:417-418 JI '62.

BEVA, J., dr.

A four-pole low-noise amplifier for centimeter waves. Slaboproudy
ebzor 23 no.1:55 Ja '62.

BENA, J., dr.

Electrodeless measurement of semiconductor resistance on centimeter waves. Slaboproudy obzor 22 no.12:768-769 D '61.

(Semiconductors)

BENA, J., dr.

Synchronization system for low frequencies. Slaboproudy obzor 22
no.12:763-764 D '61.

(Frequency changers)

COUNTRY : Czechoslovakia H-2
 CATEGORY :
 ABS. JOUR. : RZKhim., No. 5 1960, No. 18063
 AUTHOR :
 INSD. :
 TITLES :
 ORIG. PUB. :
 ABSTRACT : present been considered the upper limit for the laminar flow region. The region corresponding to $Ar > 7.2$ and $Re < 0.4$ is termed pseudolaminar. For the laminar and pseudolaminar flow regions, the expansion of the bed is expressed by the equation

$$12.8 Re = Ar(Ar + 19)^{-0.11} \epsilon^{4.65}$$
 or the condition that $Re = Re_c = (Ar + 34/199.6)^{1/1.74}$ [misprint], where ϵ is the porosity of the bed.
 CARD: 2/2 200

COUNTRY: : Czechoslovakia
CATEGORY :
ABS. JOUR. : RZiChim., No. 5 1960, No. 18063
AUTHOR : Rana, J., Ilavsky, J., Kosaacky, E., and Zakutny, O.
INSTR. : Not given
TITLE : Homogeneous Fluidized Beds of Spherical Particles
ORIG. PUB. : Chem Zvesti, 13, No 3, 170-185 (1959)
ABSTRACT : The authors have measured the expansion of homogeneous fluidized beds of spherical particles at small Ar values (3.4-223). It has been established that the pressure drop in the bed is independent of the fluid density when the particles forming the bed obey Stokes' law when falling in an unbounded viscous medium; this condition is fulfilled for $Ar < 7.2$. For $Ar > 7.2$ the pressure drop in the bed depends on the density of the fluid, even for $Re < 0.4$, which has until the

CARD: 1/2

COUNTRY : Czechoslovakia 4-2
CATEGORY :
ABS. JOUR. : RZKhim., No. 21 1959, No. 75164
AUTHOR : Greger, M. and Bena, J.
TITLE : Not given
TITLE : Fluidization Practice
ORIG. PUB. : Nasa Veda, 6, No 3, 101-10, (1959)
ABSTRACT : A brief description is given of the relationships, advantages, and shortcomings of the fluidization process and of some of its applications (the roasting of pyrites, carbonization processes, and processes taking place at the surface of fluidized catalyst particles). The bibliography lists 7 titles.

V. Gertsozskiy

CARD: 1/1

H-2

Country :
 Category : Chemical Technology.

Abs. Jour : Ref Zhur-Khimiya, No 14, 1959 No 49736

Author :
 Institute :
 Title :

Orig Pub. :
 Abstract : $Re_{crit.} = [(Ar+34)/199.6]^{1/1.747}$. For laminar
 Con'd : region the following expression is given:
 $12.8 Re = Ar^{0.89} \cdot \epsilon^{4.65}$, where $\epsilon = (L-L_0)L$.
 In the equations $Re_{crit.}$ — the maximum
 value of Re criterion, at which lg Re is
 proportional to lg ϵ when $Ar = const.$
 Ar-Arkhim's criterion. L - height of the
 pseudo-fluidized layer. L_0 - height of a
 layer prior to pseudo -fluidization.

Gard: —V. Gertsovskiy

2/2

Bena, J.

Country : CZECHOSLOVAKIA
Category : Chemical Technology. Chemical Products and
Their Applications. Chemical Engineering
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959 No 49736

Author : Bena, J.
Institute : Not given
Title : Homogeneous Pseudo-Fluidization of Spherical
Particles

Orig Pub. : Chem. prumysl, 1958, 8, No 10, 516-523

Abstract : The pseudo-fluidization of spherical particles
mold of glass and of polymethylmetacrylate,
and having diameter of 0.126-1.381 mm, was
investigated in the range of Ar criterion
variation from 30 to 10,400. It has been
established that the upper limit of laminar
region for a liquid, flowing through the
homogeneous pseudo-fluidized layer, may be
characterized by the critical value of
Reynold's criterion:

Card: 1/2

H-1

BENA, J.

BENA, J. Magnetic circuit for the control of thyatron grid. *Tr.*
from the English. p. 600.

Vol. 17, No. 10, Oct. 1956.
SLABOPROUDY OBZOR.
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

ILLEGIBLE

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H
Processes and Apparatuses of Chemical Technology.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67695.

Author : Kossaczky E., Bena J., Jesenak V., and Ilavsky J.
also Singer D.

Inst : Not given.

Title : Discussion of Singer's Article "Theoretical Bases
of Processes Involving Pseudoliquification" and
Answers to the Discussions by Beranka and Klumper.

Orig Pub: Chem. prumysl, 1956, 6, No 10, 430-433.

Abstract: Ref to Ref. Zhur-Khimiya, 1958, 25349. No abstract.

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Fluidization of spherical particles by liquids. p. 376. CHEMICKE
ZVESTI. Bratislava. Vol. 9, no. 6, June 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

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Cathamplifier. p. 43.

Vol. 11, no. 1, Jan. 1953
SLABOFROUEY OZOR
Praha, Czechoslovakia

SP: Eastern European Accession Vol. 5 No. 4 April 1956

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Vol. 14, no. 1, Jan. 1953
SLABOPROUDY CEZOR
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

BENA, J.

"Introduction to the Theory of the Fluidized Bed", P. 174, (PALIVA,
Vol. 34, No. 7, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,
Dec. 1954, Uncl.

ILLEGIBLE

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4321. Contribution to the problem of the optimum current distribution in an anti-fading aerial. J. Bena. Slabopr. Obs., 11, 80-4 (April, 1950) In Czech.																																																																																																																																																							
<p>The problem is approached in the following way: given a vertical radiation diagram which it is required to realize: what theoretical quasi-stationary current distribution is required, with varying heights of the aerial mast (the latter being actually the radiating element) to obtain the desired field distribution? As usual, the height of the mast must be expressed in fractions of a wavelength. The function of quasi-stationary current distribution must be found in terms of the height above ground yielding the required field intensity curve (given as a function of the angle of elevation). A series-expansion can be obtained which gives an approximate evaluation of the integral representing the problem. Application to $\lambda/2$ and $\lambda/4$ aeriels is then shown, better agreement with measurement results being obtained by minor corrections. B. P. KRAUS</p>																																																																																																																																																							
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The tautomeric equilibrium of acetylacetone in aqueous solution. Blahoslav Stehlik and Jan Heba (Slovak Tech. Univ., Bratislava). *Chem. Zvesti* 4, 306-8(1950).—It has been proved by the osmometric method using the rush membrane that acetylacetone in an aq. soln. contains 20% of the enol form which is not chelated. Jan Micka

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grouped electrons. Slaboproudy sbzor 25 no.3:168 Mr '64.

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